

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch

690 Walnut Ave.St. 150

Vallejo, CA 94592-1133

(707) 649-5453

(707) 649-5493

Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-004712**Date Inspected:** 09-Nov-2008**Project Name:** SAS Superstructure**OSM Arrival Time:** 730**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1530**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

CWI Name:	N/A			CWI Present:	Yes	No	
Inspected CWI report:	Yes	No	N/A	Rod Oven in Use:	Yes	No	N/A
Electrode to specification:	Yes	No	N/A	Weld Procedures Followed:	Yes	No	N/A
Qualified Welders:	Yes	No	N/A	Verified Joint Fit-up:	Yes	No	N/A
Approved Drawings:	Yes	No	N/A	Approved WPS:	Yes	No	N/A
				Delayed / Cancelled:	Yes	No	N/A
Bridge No:	34-0006			Component:	OBG		

Summary of Items Observed:

Caltrans Quality Assurance (QA) Inspector, Erik Prue was present to perform Ultrasonic Testing (UT) of Orthotropic Box Girder (OBG) components, for the San Francisco Oakland Bay Self Anchored Suspension Bridge, at Zhenhua Port Machinery Company (ZPMC) facility on Changxing Island.

OBG Assembly:

QA UT Inspector performed initial Phased Array Ultrasonic Testing (PAUT) in the marked tack weld areas of the u-rib to deck plate Partial Joint Penetration (PJP) welds after the conventional Ultrasonic Testing (UT) of tack welds. QA UT inspector performed PAUT on the following deck panels:

DP-164-001

Weld# 1 – 5 tacks PAUT'ed – 2 indications non-compliant.

Weld# 2 – 4 tacks PAUT'ed – 4 indications non-compliant.

Weld# 3 – 3 tacks PAUT'ed – 1 indication non-compliant.

Weld# 4 – 3 tacks PAUT'ed – 3 indications non-compliant.

Weld# 5 – 3 tacks PAUT'ed – 2 indications non-compliant.

Weld# 6 – 2 tacks PAUT'ed – 1 indication non-compliant.

Weld# 7 – 2 tacks PAUT'ed – 1 indication non-compliant.

Weld# 8 – 8 tacks PAUT'ed – 4 indications non-compliant

Weld# 9 – 2 tacks PAUT'ed – 1 indication non-compliant.

Weld# 10 – 4 tacks PAUT'ed – 0 indications non-compliant

Please see U-rib to deck panel tack weld assessment sheet dated 09 November, 2008 for specific information on

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PAUT inspection.

QA UT Inspector performed Phased Array Ultrasonic Testing (PAUT) of repaired crack weld (2nd repair) on deck panel DP218-001 weld #4 at "Y" location 100mm. PAUT performed and found crack to still be present. Area was marked for repair. Please see U-rib to deck panel tack weld assessment sheet dated 09 November, 2008 for specific information on PAUT inspection.

No other activities observed.

Summary of Conversations:

No significant conversations this day.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Peter Dauterman, 15002199593, who represents the Office of Structural Materials for your project.

Inspected By:	Prue,Erik	Quality Assurance Inspector
Reviewed By:	Carreon,Albert	QA Reviewer
